ANT/GRA/03

ANTARCTICA

RANGER

RC.M 1970

0010

BOOK 1.

Loc 201 -
296

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1.11.

ALL READINGS MAGNETIC

Declination about 65°W – i.e

Subtract 65° from magnetic

readings

SUNDAY 25th JAN 1970

Age determination samples
PAINTED PEAK Mason Range

Mason SQ 40-41/15. All samples 4929/4830

201 Landed in col on small side of Painted Peak. Took gravity readings.

Sample 201 Coarse grained granodiorite. Fairly dark minerals. Quartz blue/pale purple. Forms lenses and veins → 2m thick within acidic to felsic coarse grained granodiorite. Fine grained basic dykes. Well foliated.
FS. 5° N/S dip 65° W
350/65 W

Sample 202 Dk fine grained granodiorite. Contains dark fine grained enclaves. Minor pale pink veins. Fine grained flaggy rock.
Elements with one dominant [illegible]

Sample 203 Medium grained porphyritic granite. Specimen shows [illegible] feldspar crystals. Two different rock types in the collection. One well foliated and with biotite, the other not foliated and with [illegible] biotite. Both types are [illegible] and [illegible] for the [illegible].

Sample 204 Sample of the microcrystalline rock [illegible] 203 Rock breaks into small blocks due to [illegible] joints. Also a sample of porphyritic granite [illegible].

205 Sample Fine grained [illegible] granite. Mineral [illegible] banding

Sample 206 Calcite rich rock with pyroxene. Occurs as thin bands up to 5m thick within the other rock types.

All above samples taken from within 50m of north side of road

Sample 207
Garnet qtz felds. granulite rock
Coarse grained massive.

Sample 208
Biotite qtz feldspar granulite rock
micro banded. Mainly schist.

[Altimeter reading 2060 ft. 17.30 hrs
Field temperature 17-6 C°

Rain 2 ft fell 42 17.50 hrs]

Rocks on south side of col generally same as to the north except that the calcite rich rock (206) is not present

---

Painted Rock general geology

Alternation on large scale of massive fine grained medium to coarse grained gb feldspar rocks with variable amounts of pyroxene hornblende and garnet.

Bands of highly coloured gb feld granulites (with garnet + hornblende or pyroxene in variable amounts) are conspicuous as are more irregular bands and lenses of calcite gneiss rock.

The most mafic rocks tend to be microbanded with themselves and there are minor intervals of gneissic pyroxene-hornblende granulites predominate. Re stained they are friable and well jointed - difficult to obtain good samples.

(1)

c) the basic granulites are regular bodies of pegmatitic gb feldspar rock with garnet biotite and pyroxene. generally in form of bands from 1 metre wide and few metres in length.

MONDAY 26th JANUARY 1970 (5)

MADISON ROCK collection of xenoliths for age determination.
Manson 8 & 40-41/15. Samples loc.: 4947/5011
location 209

Left hoist on hill near Precambrian knob area of xenoliths 25m x 8m.
Country is a large xenolith bordered by diorite sheets and patches of pyroxene rich rock. Pegmatites and veins of granite cut xenoliths.
Sample 209 taken from west side of xenolith near margin. Dark coloured - dark minerals 65%. Med grained pyroxene granulite ~~granulite~~ ~~gneiss~~ ~~with~~ ~~pyroxene~~ ~~rich~~ ~~streaks~~ ~~parallel~~ surface pyroxene rich streaks ~~parallel~~ - not so obvious on fresh surface.
Sample taken about 1½ m. above base of xenolith and 6 m. from S end. Many fresh rock (Also isolated pebbles of Cuillin gabbro to 1m. but not collected)

Sample 210

Mean strike inclusions as 209. Across strike from 209 at about 1.5 m. from E side of inclusion. Main rock type of inclusion

Gradation from 209 into 210 across strike.

Sample 210 biotite garnet qtz feldspar granular rock medium grained

Garnets pale pink 10% elong. preferred direction due to weak alignment of biotite giving poor foliation. Light coloured rock - dark minerals less than 30%. Pale pink colour due to garnets. Yellow Fe staining on weathered joints. Sample mostly fresh

→ 90 Foliation of sample 210

Note the long inclusion is elongated in a direction 90°. This corresponds well with the general strike of the inclusions in the rest of the Met. Limb viz 75–95° and is similar to the alignment of the fold axes in the Chamouillie.

∞

MONDAY 26th JANUARY 1970

Rookery Islands Age Lot dumpy
location (211) Mamm SQ 40-41/15. Ref. 4788/5001
Cairn with [illegible] on △ stn a mam
[illegible] d. △ stn. on N end of island.
△ stn. NM/S/60 62m. elevation
Sample #1

Sample of main rock type for
about 100* in south of △ stn
Coarse grained even grained mass of
chamockite Blocky looking joints 175°/65°
Tor outcrop Fresh rock — some fe on joints
In thin section rock consists of [illegible]
[illegible] 1% opaques. Rock is
consists of crystals of pyroxene rock
aligned ff in bands.
[illegible] of [illegible]
[illegible] stone

Sample 212

75m SE of Δ Stn.
Fresh sample
Massive grey-green coarse grained ?anorthosite
similar to Kiruna type but no
selvage observed
Pyroxene granulite with rare mica
inclusions some exposures near Δ Stn

Sample 213
50m SE of Δ Stn.
Massive O/C. ? coarse grained even
grained charnockite. Slight plagioclase appears
on weathered surface
Similar to 211
Fresh samples

BGS collected 3 samples of anorthosite
from central part of island
All similar - pyroxene granulite
214, 215, 216

General geology of Rookery Island

Coarse grained even grained charnockite. Mostly massive / textured but well jointed / foliated esp. along certain zones, also thick. 135

Tr-Lite o/c's in heights points.

-Samples 211 and 213 are of the main rock type.

In places a foliation is imparted by 1" (cm) of wisps and streaks of pyroxenes (— no sample collected due to lack of time and massive nature of rock.)

Inclusions are of two types — streaks and lenses of pyroxene rich material, and

(2) discrete inclusions of pyroxene granulite ± biotite and minor garnet. Similar to Mawson area but lacking in zoning and selvages not apparent. Inclusions range in size up to about 10m (cliff generally less than 1m wide. Sample 212

Inclusions and poss foliation in main rock 60° steep

(10)

Occasional diffuse veinlets of pegmatitic material – alk. feld., py. ± garnet. Coarse-grained feldspar crystals long but only cms in width.

NOTE no shear zones were noted of Mawson area

Charnockite at Rookery Island much more strongly jointed than at Mawson.

The "grain" of the island is controlled by several zones of well jointed charnockite and by alignment of veins.

Forced to return to Mawson after less than an hour because of increase in wind speed.

Rookery Island – many penguins with young. Large areas of guano.

(11)

MANSON ROCK 28th JAN 1970

(217) 35m W. of seismic vault
Manson SQ 40-41/15 4947/5011
Inclusion 1m. long x 10cms wide
elongated NS
Sample 217. Fine - med grained
dark coloured granulite. pyroxene and
minor mica
Minor development of felsic pegmatite
veins or no change formation at margin.
Samples include charnockite country
rock.
Samples from centre and margin of inclusion

Sample 218 At S end of road bank
near Seismic vault.
Inclusion 5m x 2m. irregularly
shaped - rather end of banana with
small ponds.
Fine pyroxene granulite ... as 217
but inequigranular 1-2 mm - Sm

13

of veinlets into pyroxene and plagioclase and also bands of K-feld. a few cracks with epidote in them. Minor segregations of garnet.

Sample 212 taken from within 10 cm of W margin. Rock is pyroxene granulite medium grained. Fresh looks unfoliated segregations of biotite → the sample includes K-feld pegmatitic material bordering it.
No schorl. Dark minerals
Sample is dark coloured +60% dark minerals
Lineation due to micro banding 70°.

In thin section shows diffuse boundaries with chamosite.

Rookery Island Mawson SQ 40-41/15
Sample 219 4788/5001

North-central part of Island.
Sample of coarse gneissic granite
charnockite
Foliation imparted by small streaks
of pyroxene

Sample 220 10m. from 219

Sample of similar coarse gneissic
granite charnockite but with
more mica. Also a thin vein
of pegmatite rock.

Foliation is 60° [illegible]
Rocks on beach from block outcrop to
block 3-4m

Gibbney Island Mawson SQ40-41/15
4712/5063

Loc. 22

South end of island near Δ sh.
Main rock is gneiss even grained
coarse grained Granodiorite / Foliation
emphasised by bands + streaks of
pegmatite + biotite. st 60-70
approx N/S
N/S fine dioritic inclusions at
Mawson
[illegible] Gibbney pt no
distinct

Sample 22 1 fine + med grained
biotite pyroxene granodiorite dyke
about 1.5 m Sample 1 m west
Centre. st 55° 75° E
approx N/S. parallel
sample

Sample 22² North end of island
cross cutting coarse grained biotite hyper
pyroxene granitic rock 2-3m wide
+50m long subdivides, parallel

16

has diffuse boundaries with chamosite
Pegmatitic lenses + stocks.
- Sample taken from near margin
Strike 60°. E-W.
Lies conformed. Several more examples
are observed on island.
*N.B. compass behaving v
erratically.
Strike of gully is 222
gave readings of 160° and 90°
from opposite ends

Also inconsistent readings of
foliation in chamosite at several
localities near △ stn.

Near △ stn.
- Sample 221 Coarse grained ore
Sample chamosite, foliated.
Fe staining on fracture joints
of sample.
Massive blocky outcrop. Rock joints
N/S - E/W. approx

17

Sample 224 150m N of Ost

Fine grained coarse grained Charnockite.

Locality 225 5 km. SW from Trevilliam I. Small outcrop on coast not marked on 1:250,000 geological map.

Medium-grained charnockite with a few porphyroblasts of feldspar. Patches of coarse grained pegmatitic qtz feldspar rock

No inclusions observed of Mason.

Much moraine on top of outcrop variety of gneiss = granulite = mostly acid varieties. Chaotic assemblage from large block + 5m. + fine grained material.

Similar outcrop a little way inland

THURSDAY 29th JANUARY 1970

Mawson SQ 40-41/15 226-230 : 4894/4695

Agt det collecting Mt Burnett
Southern Mawson Range
Landed in col (south) Mt Burnett Peak
locality (226) 100m N up ridge.
Coarse ever grained charnockite
80 ∠ 60

Coarse grained rock streaked with pyroxene in
clots up to several cms width - variable length

Sample 226 Coarse grained ever minor grained
charnockite. Granular texture, banding
due to segregation of qtz + feldspar and
pyroxene. Light coloured 10-25% dark mins.
Well jointed rock close joints, joints
slightly less than 1m spacings
Rather weathered. Joints 160° × 60°

Sample 227 (New 226) Inclusion of
garnet biotite gneiss 1.5m × 0.5m. elongated
60°. medium — grained with some
pegmatitic areas. Some pyroxene.
Minor development of schlieren at margin

Sample from centre. About 30–50% dark minn.

Contains? magnetite

Ridge Sample 228. ↙

Medium grained granular rock to pegmatoid granite (variety of the charnockite) Minn banding. Some peg. lenses.

Well jointed. breaks into small blocks about 15cm x 6cm. Difficult to obtain good samples as the rock is shattered. Fresh shattered outcrops.

Various varieties of charnockite from 226 to 228 with irregular pegmatoid bands and lenses 10's of metres long & up to 1m wide mostly 1m jointed and banding.

Few discrete inclusions

A few minor shears over strike 355°.

Sample 229 At foot of ridge near col Massive coarse-grained even-grained charnockite

O/c jointed but not fine shattered

Sample 230

More Basic segregation - charnockite near foot of ridge.
Bi-pyroxene variety of charnockite.
Rather crushed post sample.

Sample 231 4895/4690
Massive coarse grained - Cpx grained charnockite - fresh outcrop near foot of ridge south of col.
Fresh

FRIDAY 30th JAN

Woodbeny Nths Pavited Gneiss
Mason SQ 40-41/15 4654/4806
VH-BLO alt. reading 2710 ft.

Locality (232) Southern most of the three larger Woodbeny Nths.

Sample 232 Medium grained pyroxene-biotite gneiss. Poorly foliated. Rare garnets. Also coarse grained granular segregations within main rock.

Fol 60/65 Fault 160-60

Well jointed. Fault shattered Blocks ca. 1m.

Sample 233 Coarse grained acid granulite with minor biotite + pyroxene streaks and rare garnet. Dark minerals less than 5%.

Boulders on beach 15m × 2m

St. 70° approx.

Sample 234

Garnet/Hornblende biotite gneiss
Red-coloured, banded
Segregations of garnet qtz feldspar (some
altered), some biotite, some garnet
bands, thinner 1-2 cm wide banded
Some. Also larger more regular pegmatite
segregations.

Foliation 75/55 Well jointed 160° and 60-70°

Sample 235 Felsic block from coarse granite pegmatite (granite) mostly
Light coloured. Also some black biotite
Perhaps garnet common

General Geology

Varieties of gneiss; migmatised granitic
biotite and pyroxene hornblende gneisses. Some
light coloured bands of granite.
Foliation about 70° dip steeply 60/70
Well jointed. Rough flat shattering
Some outcrops have a migmatitic

appearance - irregular and diffuse bands
and clumps of pigmented material
generally conformable but more irregular
folds and bands.

320
05
J
255

Sat. 31st January 1:100000
Cross Mount SR 41-42/10 D.
Alt. Road VII 75 C (a) 6980
Baggot Ridge
Mt. Bensley 9457/1966
Loc. 236 W end of ridge.
Medium grained garnet biotite gneiss. Pale pink garnets. Light coloured rock somewhat coarser than 50% felsic veins. Micaceous bands 1-2 mms due to darker biotite rich bands and streaks of pale pink garnets.
Well foliated (320 / 80-vert.)
Strong Mel. lineation (320° - 20°)
Sample 236.

Rock in situ [illegible] Elsewhere felsic veins [illegible] garnet [illegible] 0/the coarse grained garnet gneiss felsic rock.

W. end of Mt. Bewley.
Loc. (237) 5464/1957
Massive med-coarse grained garnet biotite granular rock. Obvious gneissic foliation.
Massive outcrop, first shattered into large blocks several metres dimension
Crushed alluvial
Fol 340° vert.
Joints 340° x 80°

Sample 237

5476/1955
Loc 238 S. side of Mt Bewley
Rock similar to 237 but outcrop (ex) blocky and craggy
Karstic [illegible] Loc (238) 5450/1972
Sample 238 Biotite plagioclase granulite med coarse grained

Sacco Kiln Loc 240
5495/1980
Sample 240 - 1 brick + 1 fall green
med. orange grained
St. 240 (Feldspar
Varieties due to slight ...

Bellona Mill Loc 241
5523/1977
Raw stock for 240
Similar to 240 and
236 but more variations
Well planted glaze green
Has added ... it/ grained from
med grained
Sample 241
... 240 fall green ...
Loc 240. Brick ...

SUNDAY 1st FEB. 1970 Beaver

1:100,000 SR 42-43/9 D Lake

SW. end of ridge west of Grainger Valley

MANNING MASSIF

4480/1438

Loc. (243)

Fine sheeted to the entire edge of cliff - garnet pyroxene granulite and granite - Sample 243

Above cliff edge.

Sample 244 - a granular pyroxene granulite (mafic) banded with coarse granular garnet pyroxene rock from 1 to several cms.

Rusty foliated 1/10 plus dip varies to vert. Sharp

Nearby Sample 242 Pegmatitic granite felsic rock appears to form intrusive & cutting banding. Sharp boundary. Sheet medium thick SW 240° Sheet not broken

Cliff

Along from cliff edge - foliation
only
Variably veined/ garnet granulite
Sample 246
garnet biotite plagioclase granulite
fine grained
light coloured a weathered surface
but fresh surface dark be dark
shiny qtz.
Variant of 243

(Loc. 247) Sil. enriching of ridge
W of 245 4462/1462
Layers of a garnet granulite -
green. Foliated - medium grained
Sample 247 white garnet
granulite from plutonic dyke in centre.
Dark coloured in fresh surface has a
dark shiny qtz
indicate - 30% mafics
Foliation

29

scale with basalt pipeline fragments
more mafic than 247
. Highly fractured flow material
50-60% mafics.
. Sample 248 fol

5 miles NNE from loc 247 / loc 249
Rounded hill / feature
on rolling slope
BLM summit
triangulation point on hill
. Sample 249. Pebbles andesporphyritic
V fine mafics. 4492/1530
Minor fractures ~ 200°
Some dark stained areas in between
Glazed surface to boulders.

Flow foliation mafic rich, fine grained
granular matrix similar to 247 but more
crystals. Similar to rocks in
Fox Ridge area.
Lots of pipe vesicle fragments

4546/1597

Loc 259

[illegible] [illegible]
[illegible] minor rock type.

Irregular veins up to 2cm wide of K-ast rock are confused with the granitic facies. Coarse grained pegmatitic rock - the felsic minerals + pyroxene. Irregular fractures and cracks.

Boulders at top of cliff - no real observations were made. Rock at cliff face etc

Boulders at cliff top showed the granular pegmatitic composition of the granitic facies. Boulders. Many irregular veins - up to 2mm in thickness.

Sample 350 [illegible] rock type with basic rock [illegible]

Sample 23: Pegmatitic rock

Sample 24: [illegible]

Sample 25: Coarse grained granitic rock

N.B.

(25V) South side of Hill above main

4504/1670

Sample 25V Mamie core ground

Right back to Moore Pyramid

Sandilands Nth - chert &

North side of White Mount

Mt. Cooper area banded ironst

Stake

Further work similar rock

Thompson Massif mostly white

& red banded gneisses some irregular like White Massif - Lens coloured between light & dark.

L). east of mostly red-brown granitic gneiss - some irregular bands.

Mt. Hobbs Red. brown gneiss some darker bands

Mt Locke (Porthos Range)

Red banded gneiss

Mt Gardner irregularly banded gneiss (migmatite?)

1:100,000 CROKN
MASSIF SR 41-42/10 R

Photo 2017 120 R.35

Mt Jackson – Mt Sharkfin 8201V

6054/2004

23°

6058/2003

Mt Stalker

All samples
5987/2142

(loc 257) small Isolated rock mass consisting of Granodiorite.

(loc 260) Base of Mt Stalker.

Magnetite. Porphyritic ... granite

material and then ...
Granite material ...
... plus ...
Granite material ...
grains

Granite material ... 60
... 30% ...

(Lec 25°) ...

... 60

Elsewhere ... the ...
... the ...
... rock ...

(Lec 25?) ...
... metamorphic ...
... material ... 37 ...

... 37

Sample 257 Coarse crystal
quartz-feldspar textured gneiss
Mafic with minor

From air
Mccay Ridge - major linear
feature appears to Mt Stalker
Mt Edward intruded e/c in the of
Mccay Ridge - ring to Mt Edward

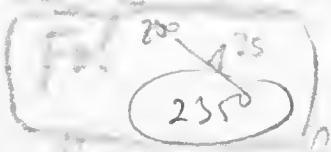
Samples 262 + 263
Mt. Edward 5947/2067
(Loc 261) Granitic rock
[illegible]

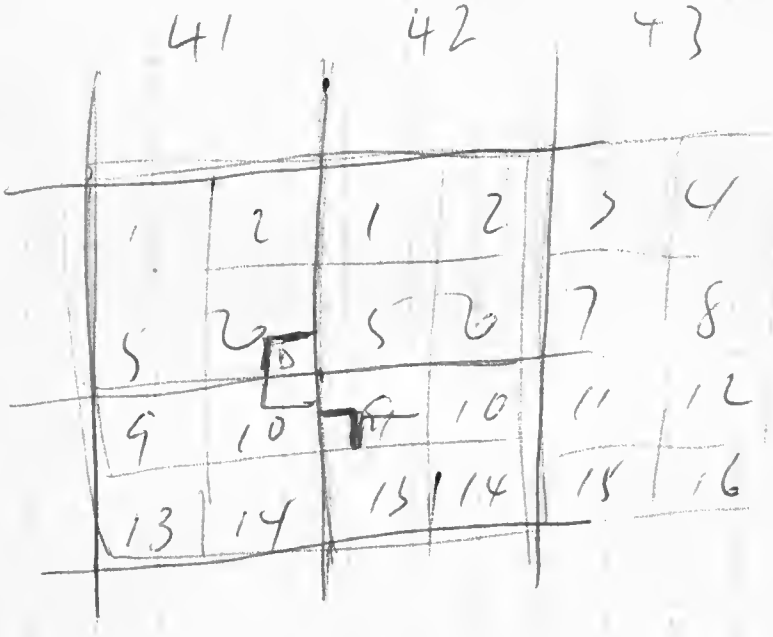
(Loc 262) [illegible]
[illegible]

Sample 062

Samples 265 · 266
5997/2004

(Lo 265)

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16

KING NUNATAKS TUESDAY 3rd FEB 1970

Largest of units NE of Stinear Nuks (Whitehall Nuks)

HK nearly 6170 on summit

SR41-42/G D. STINEAR NUKS

(loc 257) Magnetic reading 5817/2800

Main rock is a medium banded sheared gneiss dark coloured but weathers dark grey in ground mass. Fine grained. Contains numerous small pale pinkish coloured patches and pipes ⇒ less than 5 mm in diameter.

Layers of dark rock

Clots and lenses of fine grained material composed of dark minerals. Also small and irregular veins of leucocratic granite material.

Mostly small clots and lenses

42

360
65
205

[illegible] length in the [illegible] Cape and seen
observed a cliff face 1-2m. wide and 10's
metres in length — Pegmatite.
% of light coloured acid material approx 30%
at loc 267 and on cliffs nearby
Fol. 280
Many small abandoned shears [illegible] Fol.

Rock [illegible]
Intrusive [illegible] the [illegible] green
with the coarse [illegible]

Sample No
267 [illegible] Sericite-Sandal Talc Schist green.
garnet rich. Some sillimanite. Sheared

266) Large green [illegible] garnet
and sillimanite

265 Large green [illegible] garnet
with quartz material

220
65
155

Mass II

Tobin Peak.

270 Eastern end of Summer Cat Range.

SR41-42/6 STINEAR NTICS 5749/2675

Tom air hill is an intensely veined pale brown rock and cream coloured acid veins intricately folded. Large vein - feature of o/c

Sample 270 Main rock is a coarse grained felt. biotite hypersthene granulite (granite gneiss) Little foliation in hand specimen but weathered outcrops show foliation, dark streaks of mafics and lighter bands of quartzofeld.

Tot. /40 A75

A few more bands of more mafic rock

The light coloured acid veins are coarse grained pegmatitic granite felt rock little mafics.

They form veins and irregular masses up to 10's of metres wide and long. Many of the larger are zoned from coarse granite to pegmatite but contain irregular masses of granite rock within them. Smaller dyke veins are common and cut folded

Sample 271

44

45

very [illegible] a [illegible] of Stenian [illegible]
Hfels [illegible] up to 20cm wide 10's metres
- Contact conformable (see sample 271)
Poorly developed schlieren of garnet-mafics
- some [illegible] segregations - [illegible] elongate elliptical
up to 2m x 0.5m - mostly small & irregular
Minor leucocratic veins & aplite

Fol 29/11 Trend to 120 variably jointed

Peak of common leucocratic veins
Near loc 272

? fold

Loc 272

SR 41-42/6D STENOTH Wks

5731/2667

200
.65

155

200
.65

135

Loc 273 [illegible]

Sample 273 SR41-42/6D STINEAR INTICS 5583/2478

Granular gt bearing (stretched) granitic gneiss somewhat similar in texture to specimen 272 C and of similar mineralogy. Streaks of mafic gneiss foliation FSL 70/20 Strike direction 45/210 Several [illegible] veins of aplitic material parallel to foliation (~~N-S 27E~~). Here numerous small [illegible] veins and segregations. But no fresh chlorite and veins. Rock under [illegible] granitic gneiss. Occurs here as relatively resistant ridges of the migmatite complex as a whole. Granular gt, and medium minerals resistive to the host rock. They do not stand out prominently as in the [illegible]

Sample also has a coarse to medium [illegible] more [illegible]

47

360
65
295

Rikiell Mk SR41-42/6C STIMEARNTICS

Landed c cost inland W. of Ask
granite, scarp, in cob
5520/2447
(Loc. 274) Sample 274

Main rock type in a light coloured
med. coarse grained pink biotite gb feldspar
Granitic rock porph. foliated. Dark minerals
FOL 70/ 0° Strong fault joints 3° > 90°
Shale several metres wide

Sample 275

Main body of [illegible] gb biotite
granitic rock. Contains [illegible]
[illegible] irregular [illegible]
to ground
Also areas of quartz veins. Fault
[illegible]

350
.65
251

[illegible] Sample 276

[illegible] x-cut [illegible] x-cut
[illegible] glauke green

Loc 277 Mt Fox [illegible]

[illegible] ground [illegible] ridge [illegible]

[illegible] 35°

Schist with [illegible] banded [illegible]
[illegible] cm [illegible] light [illegible] dark. Col. [illegible]

Sample 277 [illegible] 5 mm.
Contains sillimanite

On summit of Mt Fox rock [illegible] granite
grain coarse [illegible] [illegible]
[illegible] [illegible] [illegible]

Sample 278 Fol. 10° ved (274)

[illegible] cliff face observed from ridge
appears to be [illegible] [illegible]
dark veins. [illegible]

... to sources.

THURSDAY 5th FEB 1970

Mineral Peaks. Mt Scanlon area. Run 4 L7183
See photo AN764

1:100,000 SR42-43/9C RENEW LAKE

Camp site in cirque NW Mt Scanlon
4385/1658

Loc. 279 New summit of large conical hill east of camp (circled in W for Nash)
Streaky granular biotite gneiss with banded ... Fe-hornblende schists of mafic and ultramafic bands, ... feldspathic ... Sample 279 ... from ridge
Fol 350° vert ... banding parallel 350°, 70°
Photo
... Sample 280 ... mafic gneiss contains many

[illegible] ... other
are variable pebbly and lenses of quartzite
material in the strongly foliated + granitic
gneiss.
280 + 279 lead to granitic gneiss and
contain lenses of [illegible] schist
Dip shows variation in direction.
It has several parallel quartz veins
Xanth
Minor irregular anticline and folds
Isoclinal folds and minor folds trend to
plunge direct. 190°

4387/1059

(loc 282) Schist summit in hill
has lens outcrop of calc silicate rock Sample
from almost pure white marble to the more
diopside rock Sample 283. Dip [illegible] on
side. Hard corner formed [illegible]
Sample 282 marble [illegible]
Sample 283 calcite diopside rock

Down hill there is good [illegible] several
of these rock alternating with the more

(284) Transect along ridge. Similar rock types as 279 - 280; 280A Mafic dominant. Medium mafic rock

View 3rd summit pt P_{50}^{5} mainly gl + felsic granulite.

(Loc 285) On main summit. Interbanded granular granular gneiss (granulites) 4386/1650

Variations due to 2 mafic minerals and degree of recrystallization

ϕ^{5} pt.

Very coarse interbanded of mafic and felsic gneiss

Very minor irregular veins + pods of felsic material cutting banding

Sample 285 Typical of pt 4 granular gneiss showing interbanded by felsic bands. Less than 10% dark minerals. Mafic minerals

Sample 285 Oligoclase granulite. Mafic minerals

Sample 285 Dominant rock type

Rock type pt 5 - mafic

(Remark photos for summit)

(287) [illegible] several [illegible] varieties of granite gneiss with [illegible] veins. Also bands 2-3 m. wide of "igneous granite". Several parts of veins of pegmatite type 1 m. wide & several metres long.

The summit is closely jointed & both the relationship of the various rock types is difficult to determine:

Vol. 4 Close joints S 20°
" Sheeting 200°

4376/1635.

A ridge top several ancient tors with large boulders and in situ rock but the whole rock fractured into small (cm to 1 m) cubes (usually 1m and less).

In the tors numerous veins anastamosing sheets are apparent - both granitic and basic.

Occasional zones of schistose mafic rock conformable

Dixon Peaks | Dec proj AMT 94 Run 4 (Mt Dainin - Mt Lorne) L7183

1:100,000 SR 42-43 | 9C Bowes Lake

(loc 268) Isolated rounded bld with lots of limonite + some/wtd 4397/1645

Vonsites of acid granulites with minor thin bands of mafic granulite + gneiss. Mafic rocks are fg-fgld granulite and gneiss. Contacts are gradational + defined by minor mafic layers. Sample 285

Foliation due to alignment of fg-fgld lenticles. Fol + / Strike 0°, 60° to E

Most of area poorly outcrop

(loc 284) 45°/159

57

granite
Sample 289 Acid granulite and gneiss

Sample 290 Biotite ? gneiss. Lighter fold

gneiss ... is 289 sheared

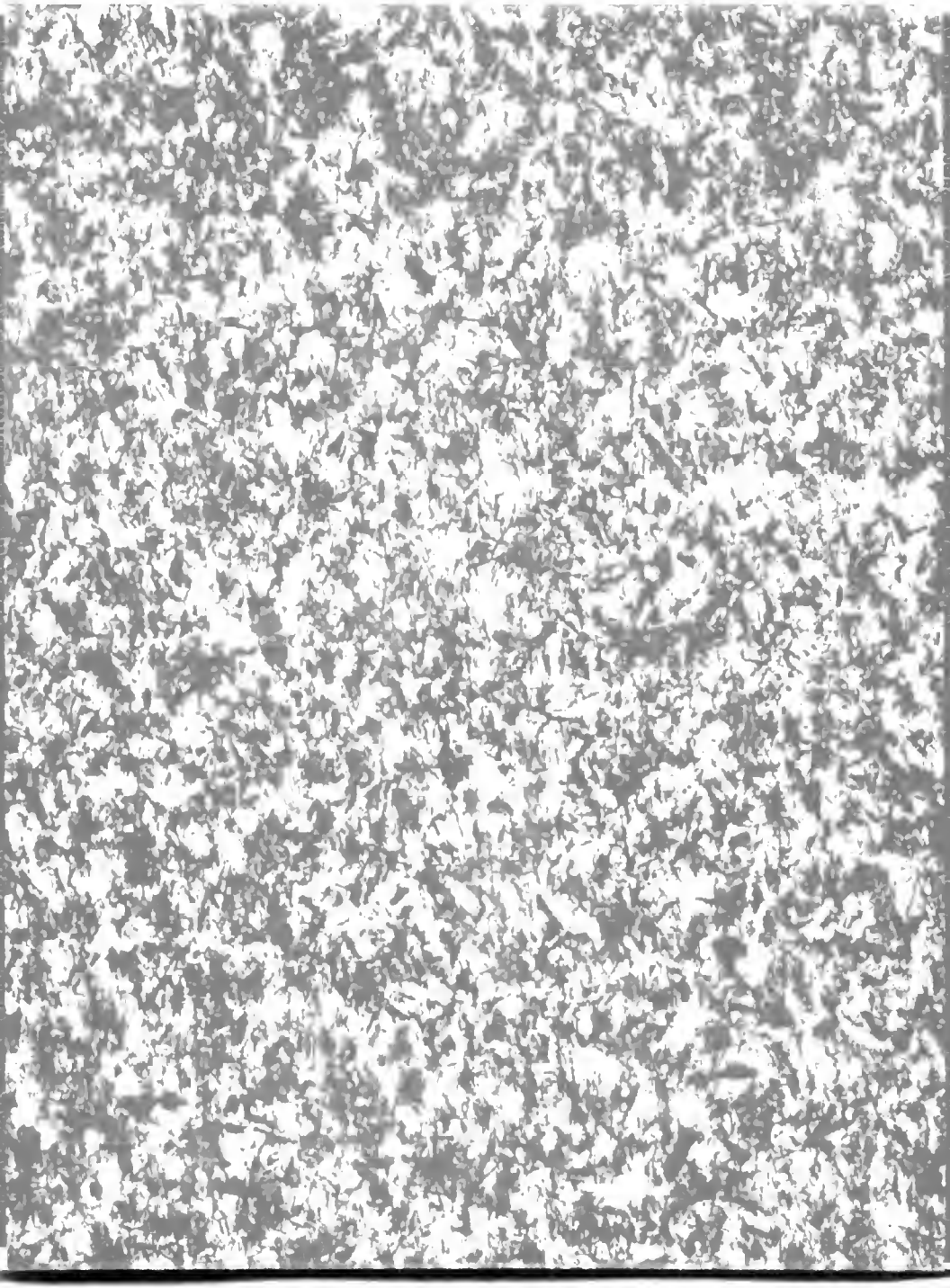
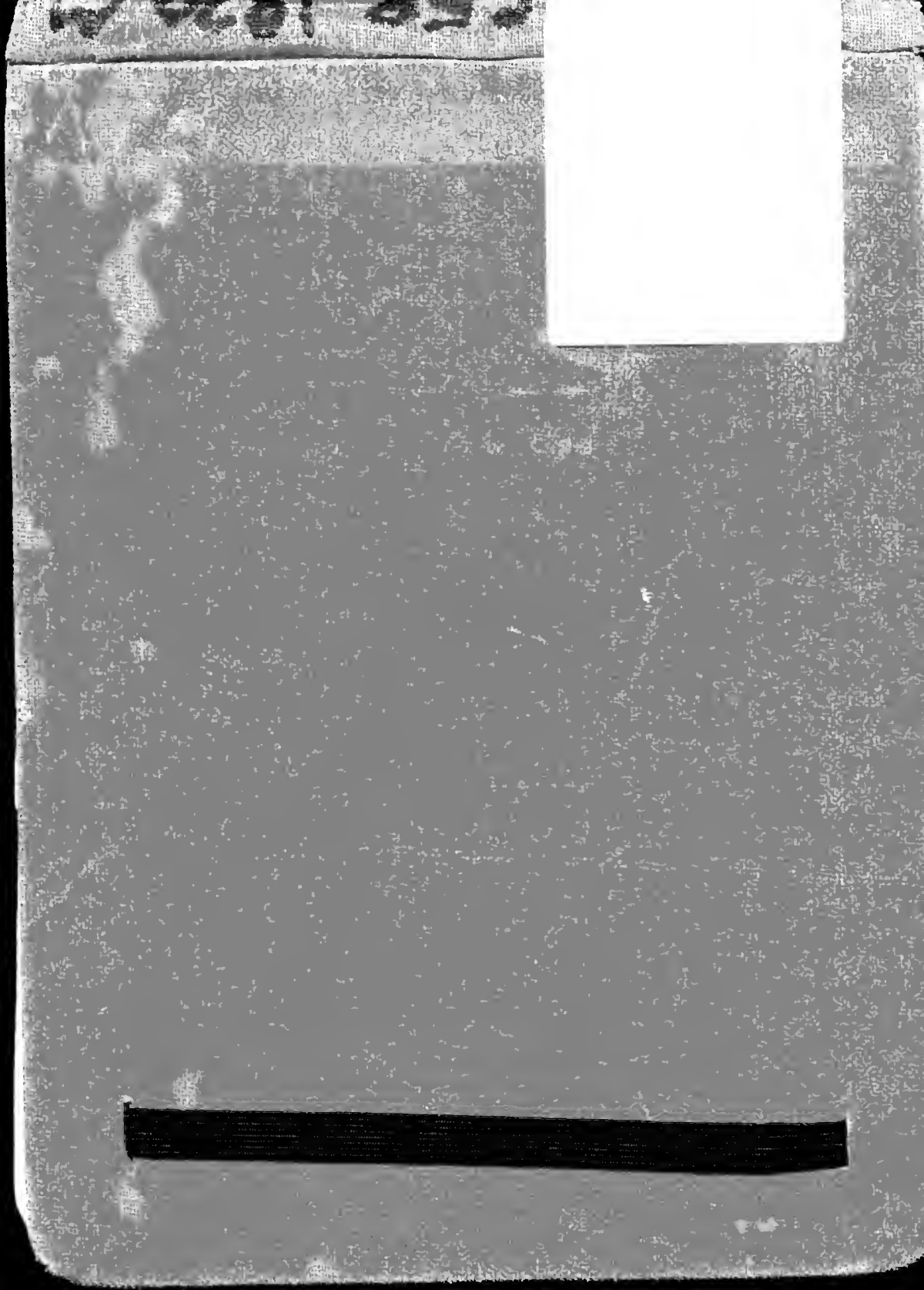
Red type of 289 most common

(loc 291) ... granite ... granite ... granite

56

295

4415/1673

Sample 295

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